



ELSEVIER

Aquaculture 180 (1999) 395–397

Aquaculture

www.elsevier.nl/locate/aqua-online

Contents of *Aquaculture*, Volume 180

VOL. 180 NOS. 1, 2

1 OCTOBER 1999

Diseases, Parasites and Predators

- Development of methods for predicting the minimum concentrations of oxytetracycline capable of exerting a selection for resistance to this agent
A. O'Reilly and P. Smith (Galway, Ireland). 1
- Resistance to *Vibrio alginolyticus* in juvenile rockfish (*Sebastes schlegeli*) fed diets containing different doses of aloe
K.H. Kim, Y.J. Hwang and S.C. Bai (Pusan, South Korea). 13
- Histopathological surveys of the redclaw freshwater crayfish, *Cherax quadricarinatus*, in Australia
B.F. Edgerton and L. Owens (Townsville, QLD, Australia) 23

Genetics and Breeding

- Identification of individual prawns with implanted microchip transponders
T. Caceci, S.A. Smith, T.E. Toth, R.B. Duncan and S.C. Walker (Blacksburg, VA, USA) 41

Husbandry and Management

- The daily feeding rhythm to demand feeders and the effects of timed meal-feeding on the growth of juvenile Florida pompano, *Trachinotus carolinus*
M.J. Heilman and R.E. Spieler (Dania, FL, USA) 53
- Successful stock enhancement of a lagoon prawn fishery at Rekawa, Sri Lanka using cultured post-larvae of penaeid shrimp
J. Davenport (Scotland, UK), S.U.K. Ekaratne, S.A. Walgama (Colombo, Sri Lanka), D. Lee and J.M. Hills (Scotland, UK) 65
- Competition for space and food in rainbow trout, *Oncorhynchus mykiss*, as related to ascorbic acid status
J.H. Blom (Columbus, OH, USA), K. Dabrowski (Columbus, OH, Piketon, OH, USA), J.D. Rapp (Piketon, OH, USA), Y. Sakakura and K. Tsukamoto (Tokyo, Japan) 79
- Reevaluation of the choline requirement of fingerling channel catfish (*Ictalurus punctatus*) and determination of the availability of choline in common feed ingredients
Z. Zhang and R.P. Wilson (MS, USA) 89

Nutrition

- Partial or total replacement of fish meal by corn gluten meal in diet for turbot (*Psetta maxima*)
C. Regost, J. Arzel (Plouzané, France) and S.J. Kaushik (Saint Pée-sur-Nivelle, France) 99
- The effect of dietary protein content on growth and biochemical composition of Chilean scallop *Argopecten purpuratus* (L.) postlarvae and spat
I. Uriarte and A. Farías (Puerto Montt, Chile). 119

Effects of heat treatment and substitution level on palatability and nutritional value of soy defatted flour in feeds for Coho Salmon, <i>Oncorhynchus kisutch</i> R.E. Arndt (Seattle, WA, USA), R.W. Hardy, S.H. Sugiura (Hagerman, ID, USA) and F.M. Dong (Seattle, WA, USA)	129
The use of probiotics in aquaculture F.J. Gatesoupe (Plouzané, France)	147
The effect of dietary protein and lipid source on dorsal fin erosion in rainbow trout, <i>Oncorhynchus mykiss</i> F.T. Barrows (Bozeman, MT, USA) and W.A. Lellis (Wellsboro, PA, USA)	167

Physiology and Endocrinology

Artificial insemination with cryopreserved semen from striped trumpeter (<i>Latris lineata</i>) A.J. Ritar (Hobart, Tasmania, Australia)	177
---	-----

VOL. 180 NOS. 3, 4

3 NOVEMBER 1999

Diseases, Parasites and Predators

Passive immunisation of fish against vibriosis, comparison of intraperitoneal, oral and immersion routes M. Akhlaghi (Shiraz, Iran)	191
--	-----

Economics and Marketing

Economic efficiency and optimum stocking densities in fish polyculture: an application of data envelopment analysis (DEA) to Chinese fish farms K.R. Sharma, P.S. Leung, H. Chen and A. Peterson (Honolulu, HI, USA)	207
---	-----

Genetics and Breeding

Estimation of genetic parameters from pedigreed populations: lessons from analysis of alevin weight in Coho salmon (<i>Oncorhynchus kisutch</i>) V. Martínez, R. Neira (Santiago, Chile) and G.A.E. Gall (Davis, CA, USA)	223
Feed intake, growth and feed utilization of offspring from wild and selected Atlantic salmon (<i>Salmo salar</i>) J. Thodesen, B. Grisdale-Helland, S.J. Helland and B. Gjerde (Sunndalsøra, Norway)	237
Microsatellite genetic variation between and within farmed and wild Atlantic salmon (<i>Salmo salar</i>) populations A.T. Norris, D.G. Bradley and E.P. Cunningham (Dublin, Ireland)	247

Nutrition

Growth, feed and nutrient utilisation and gastrointestinal evacuation time in Atlantic salmon (<i>Salmo salar</i> L.): the effect of dietary fish meal particle size and protein concentration H. Sveier, E. Wathne (Dirdal, Norway) and E. Lied (Bergen, Norway)	265
Replacement of living microalgae with spray-dried diets for the marine mussel <i>Mytilus galloprovincialis</i> C. Langdon and E. Önal (Newport, OR, USA)	283
Gut contents of silver carp, <i>Hypophthalmichthys molitrix</i> , and the disruption of a centric diatom, <i>Cyclotella</i> , on passage through the esophagus and intestine P. Xie (Wuhan, China)	295
Deposition of astaxanthin in fillets of Atlantic salmon (<i>Salmo salar</i>) fed diets with herring, capelin, sandeel, or Peruvian high PUFA oils B. Bjerkeng (Sunndalsøra, Norway), B. Hatlen and E. Wathne (Dirdal, Norway)	307
Growth, survival, lipid composition and pigmentation of turbot (<i>Scophthalmus maximus</i>) larvae fed live-prey enriched in Arachidonic and Eicosapentaenoic acids A. Estévez (La Coruña, Spain), L.A. McEvoy, J.G. Bell and J.R. Sargent (Scotland, UK)	321

Apparent digestibility of rendered animal protein ingredients for rainbow trout (<i>Oncorhynchus mykiss</i>) D.P. Bureau, A.M. Harris and C.Y. Cho (Guelph, Ont., Canada)	345
Renal L-gulono-1,4-lactone oxidase activity as affected by dietary ascorbic acid in lake sturgeon (<i>Acipenser fulvescens</i>) R. Moreau, K. Dabrowski (Columbus, OH, USA) and P.H. Sato (East Lansing, MI, USA).	359
Characterisation of cellulase activity in the digestive system of the redclaw crayfish (<i>Cherax quadricarinatus</i>) X.M. Xue, A.J. Anderson, N.A. Richardson, A.J. Anderson (Brisbane, Australia), G.P. Xue (St. Lucia, Australia) and P.B. Mather (Brisbane, Australia)	373
Book reviews	
Biology of Farmed Fish	387
African Inland Fisheries, Aquaculture and the Environment	388
Contamination of Animal Products: Prevention and Risks for Public Health Scientific and Technical Review	389
Books received	391
Contents of Aquaculture, Volume 180	395

